APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): May 27, 2008

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Wilmington District, Mr. & Mrs. Gerardo Alfaro, SAW 2008 01714
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: 3907 Silver Chalice Drive located off of Old Belews Creek Road, east

of Winston-Salem, in Forsyth County, North Carolina. Property is adjacent to a tributary of West Belews Creek which is a tributary	<u> </u>
Dan River.	
State:North Carolina County 'parish borough: Forsyth City: Winston-Salem Center coordinates of site (lat long in degree decimal format): Lat. 36.1752358° N. Long80.1306025° W.	
Universal Transverse Mercator:	
Name of nearest waterbody: West Belews Creek	
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Dan River Name of watershed or Hydrologic Unit Code (HUC): 03010104	
 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different form. 	Ю
D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: May 27, 2008 ☐ Field Determination. Date(s):	
SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.	
There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review [Required]	i area
Waters subject to the ebb and flow of the tide.	
Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.	
Explain: .	
B. CWA SECTION 404 DETERMINATION OF JURISDICTION.	
There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]	
1. Waters of the U.S.	
a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas	
 Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs 	
 Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs 	
Wetlands directly abutting RPWs that flow directly into TNWs	
Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs	
Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs	
Impoundments of jurisdictional waters	
☐ Isolated (interstate or intrastate) waters, including isolated wetlands	
b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 300linear feet: 5width (ft) and or acres.	
Wetlands: acres.	
c. Limits (boundaries) of jurisdiction based on: Established by OHWM.	
Elevation of established OHWM (if known):	
2. Non-regulated waters/wetlands (check if applicable): ³	

Boxes checked below shall be supported by completing the appropriate sections in Section III below

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

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SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1.	TNW Identify TNW:
	Summarize rationale supporting determination: .
2.	Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.I for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions: Watershed size: 50acres

Drainage area: 50 acres Average annual rainfall: 30 inches Average annual snowfall: 2 inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. ☐ Tributary flows through 3 tributaries before entering TNW. Project waters are 15-20 river miles from TNW. Project waters are Pick List river miles from RPW. Project waters are 15-20 aerial (straight) miles from TNW. Project waters are Pick List aerial (straight) miles from RPW. Project waters are Pick List aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW⁵: Tributary flows to West Belews Creek which flows to Dan River (TNW) and the Atlantic Ocean. Tributary stream order, if known: 1.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West

Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into FNW

(b)	General Tributary Tributary is:	y Characteristics (check all that apply); ⊠ Natural	
	Tributary is.	Artificial (man-made). Explain:	
		Manipulated (man-altered). Explain:	
	Average wid Average dep		
	Silts☐ Cobbles☐ Bedrock	☐ Vegetation. Type ° o cover:	
	Other. Ex	ixplain:	
	Presence of run ri Tributary geomet	ion stability [e.g., highly eroding, sloughing banks]. Explain: silted be riffle pool complexes. Explain: degraded by silt, stry: Relatively straight nt (approximate average slope): 2 %	rd and eroding banks.
(c)	Estimate average	es for: Seasonal flow e number of flow events in review area/year: 20 (or greater) ow regime: 12 months.	
		on on duration and volume: .	
	Surface flow is: L	Discrete and confined. Characteristics: .	
	Subsurface flow:	: Unknown. Explain findings: .	
	Dye (or o	other) test performed:	
	 ☑ Bed and ☑ OHWM⁶ ☑ clear ☑ shelf ☑ vege ☑ leaf ☑ sedii ☐ wate ☐ othe 	6 (check all indicators that apply): ar, natural line impressed on the bank	egetation
en c	☐ High Ti ☐ oil o ☐ fine ☐ phys ☐ tidal ☐ othe	han the OHWM were used to determine lateral extent of CWA jurisdic lide Line indicated by: or scum line along shore objects e shell or debris deposits (foreshore) sical markings characteristics al gauges er (list):	ed by:
(m) Che	emical Characteri	ristics:	

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. Third

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Exp	.plain:
channel had flow in December, but system degraded by surrounding existing development.	

Identify specific pollutants, if known:

	(iv)	Bio	logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width); 30 ft.
			Wetland fringe. Characteristics: .
			Habitat for:
			Federally Listed species. Explain findings:
			☐ Fish spawn areas. Explain findings: .
			☐ Other environmentally-sensitive species. Explain findings:
			Aquatic wildlife diversity. Explain findings:
2.	Cha	ıract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	Phy	esical Characteristics:
		(a)	General Wetland Characteristics:
			Properties: Wetland size: acres
			Wetland type. Explain: .
			Wetland quality. Explain:
			Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW:
			Flow is: Pick List . Explain: .
			Surface flow is: Pick List
			Characteristics:
			Subsurface flow: Pick List . Explain findings: .
			Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW: Directly abutting
			Not directly abutting
			☐ Discrete wetland hydrologic connection. Explain: .
			Ecological connection. Explain:
			Separated by berm barrier. Explain:
		(4)	Proximity (Relationship) to TNW
		(4)	Project wetlands are Pick List river miles from TNW.
			Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List .
			Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Che	emical Characteristics:
		Cha	aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
		I.d.s	ntify specific pollutants, if known:
		ide	ntry specific ponditains. If known.
	(iii) Bio	logical Characteristics. Wetland supports (check all that apply):
			Riparian buffer. Characteristics (type, average width):
			Vegetation type percent cover. Explain:
		Ш	Habitat for:
			Federally Listed species. Explain findings:
			Fish/spawn areas, Explain findings:
			Other environmentally-sensitive species. Explain findings:
			Aquatic wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List

Approximately () acres in total are being considered in the cumulative analysis.

		For each wetland, specify the fo	dlowing:		
		Directly abuts? (Y N)	Size (in acres)	Directly abuts? (Y N)	Size (in acres)
			•		
		Summarize overall biologic	cal, chemical and physic	al functions being performed:	
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C.	SIG	NIFICANT NEXUS DETERMINA	TION		
	For than eval- its p signi tribu	each of the following situations, a si a speculative or insubstantial effec uating significant nexus include, bu	gnificant nexus exists in the on the chemical, phys the not limited to the the performed by the trace the cific threshold of dista	f the tributary, in combination wi ical and/or biological integrity of volume, duration, and frequency ibutary and all its adjacent wetlan ince (e.g. between a tributary and	of the flow of water in the tributary and ids. It is not appropriate to determine its adjacent wetland or between a
		w connections between the features Instructional Guidebook, Factors to			the Rapanos Guidance and discussed in
	•		ith its adjacent wetlands	(if any), have the capacity to carry p	pollutants or flood waters to TNWs, or to
	•		ith its adjacent wetlands	(if any), provide habitat and lifecyc	le support functions for fish and other NW?
	•	Does the tributary, in combination w support downstream foodwebs?			
	•	Does the tributary, in combination w integrity of the TNW?	ith its adjacent wetlands	(if any), have other relationships to	the physical, chemical, or biological
	Note	e: the above list of considerations is	not inclusive and other	functions observed or known to o	occur should be documented below:
		-		-	r indirectly into TNWs. Explain findings
		of presence or absence of significant	nexus below, based on t	he tributary itself, then go to Section	n III.D:
	2.	Significant nexus findings for non-	RPW and its adjacent v	wetlands, where the non-RPW flo	ws directly or indirectly into TNWs.

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- Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands. then go to Section III.D:

D.

3.	Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
	TERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT PLY):
١.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
	TNWs: linear feet width (ft). Or. acres.
	☐ Wetlands adjacent to TNWs: acres.
2.	 RPWs that flow directly or indirectly into TNWs. □ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: □ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: The tributary is a bed and bank stream channel with scour lines of OHWM. There is sediment sorting with shelving and some pool riffle habitat.

	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 300 linear feet5width (ft).
	Other non-wetland waters: acres.
	Identify type(s) of waters:
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):
	☐ Tributary waters: linear feet width (ft).
	Other non-wetland waters: acres.
	Identify type(s) of waters: .
4.	 Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. □ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. □ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2. above. Provide rationale indicating that wetland is directly abutting an RPW: □ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is
	seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area; acres.
7.	Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S" or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
OR	DLATED INTERSTATE OR INTRA-STATE WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK L THAT APPLY): ¹⁰

E.

 $^{^8} See$ Footnote $\#\,3$ 9 To complete the analysis refer to the key in Section III D.6 of the Instructional Guidebook.

		which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce.
		Interstate isolated waters. Explain:
		Other factors. Explain: .
	Prov	ntify water body and summarize rationale supporting determination: ide estimates for jurisdictional waters in the review area (check all that apply):
		Tributary waters: linear feet width (ft).
		Other non-wetland waters: acres.
		Identify type(s) of waters: .
		Wetlands: acres.
F.		N-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC." the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
		Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
		Other: (explain, if not covered above): .
	pres	ide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., ence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all apply):
		Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
		Lakes/ponds: acres.
		Other non-wetland waters: acres. List type of aquatic resource:
		Wetlands: acres.
		ride acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a ing is required for jurisdiction (check all that apply):
	_	Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
		Lakes/ponds: acres.
		Other non-wetland waters: acres. List type of aquatic resource: .
		Wetlands: acres.
SEC	CTIO	NIV: DATA SOURCES.
4	SUPE	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case tile and, where checked and
1.		dested, appropriately reference sources below):
	\boxtimes	Maps, plans, plots or plat submitted by or on behalf of the applicant consultant:
		Data sheets prepared submitted by or on behalf of the applicant consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets delineation report.
		Data sheets prepared by the Corps: .
		Corps navigable waters' study: .
		U.S. Geological Survey Hydrologic Atlas:
		☐ USGS NHD data. ☐ USGS 8 and 12 digit HUC maps.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

\geq	U.S. Geological Survey map(s). Cite scale & quad name: Walkertown.
	USDA Natural Resources Conservation Service Soil Survey, Citation:
	National wetlands inventory map(s). Cite name:
	State Local wetland inventory map(s):
	FEMA FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date):
	or Other (Name & Date):
	Previous determination(s). File no. and date of response letter:
	Applicable supporting case law: .
	Applicable supporting scientific literature: .
	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: